April 15, 2002

Lori Washington BP Products North America, Inc. P.O. Box 710 Whiting, IN 46394-0710

Re: 089-15525-00003

Administrative Amendment to Part 70

Significant Source Modification 089-13846-00003

Dear Ms. Washington:

BP Products North America, Inc. was issued a Part 70 Significant Source Modification on June 27, 2001 for a petroleum refinery located at 2815 Indianapolis Blvd., Whiting, IN 46394-2197. Two requests for revisions were received on January 28, 2002 and April 8, 2002. The requests were made:

- (a) to include the sulfur pit emissions with the Sulfur Recovery Unit (SRU) in accordance with a legal consent decree, and
- (b) to change language to more closely follow the New Source Performance Standards Subpart J. The SBS tail gas unit, an oxidation unit, is required to have a sulfur dioxide monitor, but the B/S tail gas unit, a reduction unit not followed by incineration, is required to have a monitor for total reduced sulfur, with a calculation to convert to sulfur dioxide emissions.

Pursuant to the provisions of 326 IAC 2-7-11(a)(7), Significant Source Modification 089-13846-00003 is hereby administratively amended as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This source modification involves the following emission units and pollution control devices:

- (a) The Sulfur Recovery Unit (SRU), rated at 600 long tons per day, which includes:
 - (1) Three (3) three-stage Claus units, identified as the "A," "B" and "C" trains.
 - (2) One (1) Beavon-Stretford tail gas unit, a reduction system with a burner capacity of 24.3 MMBtu per hour, identified as "B/S TGU."
 - (3) One (1) tail gas unit, an oxidization system with a burner capacity of 40 MMBtu per hour, identified as "SBS TGU." Sulfur dioxide emissions are controlled by one (1) caustic soda scrubbing tower, which produces sodium bisulfite as a byproduct. Sodium bisulfite is removed from the exhaust stream by a cooling tower rated at 4200 gallons per minute, identified as the "SBS cooling tower", equipped with a high-efficiency mist eliminator.
 - (4) Gas quenching and cooling towers other than the SBS cooling tower.

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- (5) One (1) quench separator with mist eliminators.
- (6) One (1) gas cooler and water condenser with sulfur dioxide stripper.
- (7) Caustic soda storage tanks and sodium bisulfite storage tanks, and handling equipment.
- (8) One (1) modular degassing unit, which removes gases that are emitted during the cooling of molten sulfur. Removed gases are vented to the SBS TGU. The modular degassing unit consists of:
 - (A) One (1) degassing column.
 - (B) Two (2) sulfur feed pumps, each rated at 72 gallons per minute.
 - (C) Two (2) air compressors, each rated at 193 standard cubic feet per minute.
 - (D) One (1) air compressor receiver.
 - (E) One (1) feed drum.
 - (F) One (1) sulfur cooler.
 - (G) Associated loading lines.

D.3.3 Emission Offset [326 IAC 2-3]

(a) Pursuant to Construction Permit 089-3323-00003, issued on December 14, 1994, emissions of total reduced sulfur measured calculated as sulfur dioxide from the B/S TGU shall be limited to 232.6 tons per 12-month period.

Furthermore, the following emission units shall remain inoperative unless new approval is obtained:

- (1) Propane Dewaxing Unit
- (2) #1, #2 and #3 Asphalt Oxidizers
- (3) The Butamer Unit
- (4) The F-7 Furnace to the Isomerization Unit
- (5) The #1 Power Station Boiler #1
- (b) Emissions of total reduced sulfur measured as sulfur dioxide from the SBS TGU shall be limited to 39.4 tons per 12-month period.

This condition renders the requirements of Emission Offset as not applicable for sulfur dioxide.

D.3.5 New Source Performance Standards [326 IAC 12] [40 CFR 60]

Pursuant to 326 IAC 12 (40 CFR 60, Subpart J):

- (a) Emissions of sulfur dioxide from the SBS TGU shall not exceed 250 parts per million (ppm) by volume, on a dry basis corrected to 0% excess air.
- (b) Emissions of reduced sulfur compounds from the B/S TGU, measured calculated as sulfur dioxide, shall not exceed 300 ppm by volume, on a dry basis corrected to 0% excess air.
- (c) Emissions of hydrogen sulfide from the B/S TGU, measured calculated as sulfur dioxide, shall not exceed 10 ppm by volume, on a dry basis corrected to 0% excess air.

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Condition D.3.6 is being added to the permit to read as follows, and the subsequent conditions are being renumbered:

D.3.6 Legal Consent Decree

Pursuant to Consent Decree 2:96 CV 095 RL, the Permittee shall re-route all sulfur pit emissions such that they are treated, monitored, and included as part of the emissions of the SRU.

D.3.8 D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B C - Preventive Maintenance Plan, of this permit, is required for this facility and its control devices.

D.3.9 D.3.10 Continuous Emission Monitoring System (CEMS) Required [326 IAC 3-5] [326 IAC 12]

- (a) A continuous emission monitoring system shall be installed and shall be operated at all times when the SBS TGU is in operation. The CEMS shall continuously measure and record the concentration of reduced sulfur dioxide emissions, on a dry basis corrected to 0% excess air. The CEMS shall also include an oxygen monitor for correcting the data for excess air, and a continuous flow meter for calculating the sulfur dioxide emission rate per month and per 12-month period.
- (b) A continuous emission monitoring system shall be installed and shall be operated at all times when the B/S TGU is in operation. The CEMS shall continuously measure and record the concentration of reduced sulfur emissions, on a dry basis corrected to 0% excess air. The CEMS shall also include an oxygen monitor for correcting the data for excess air.

D.3.12 D.3.13 Reporting of Excess Emissions [326 IAC 12] [40 CFR 60.7] [326 IAC 3-5-7]

- (a) For the purpose of reports under 40 CFR 60.7, periods of excess emissions shall be determined and reported as follows:
 - (1) All 12-hour periods during which the average concentration of SO₂, as measured by the continuous monitoring system on the SBS TGU, exceeds 250 ppm (dry basis, zero percent excess air).
 - (2) All 12-hour periods during which the average concentration of **reduced sulfur as** SO₂, as measured by the continuous monitoring system on the B/S TGU, exceeds 300 ppm (dry basis, zero percent excess air).
- (b) For the purpose of reports under 326 IAC 3-5-7, periods of excess emissions shall be determined and reported as follows:
 - (1) All 3-hour periods during which the average concentration of SO₂, as measured by the continuous monitoring system on the SBS TGU, exceeds 250 ppm (dry basis, zero percent excess air).
 - (2) All 3-hour periods during which the average concentration of **reduced sulfur as** SO₂, as measured by the continuous monitoring system on the B/S TGU, exceeds 300 ppm (dry basis, zero percent excess air).
- (c) The periods shall end at 03:00, 06:00, 09:00, 12:00, 15:00, 18:00, 21:00, and 24:00 hours.

BP Products North America, Inc.
Whiting, IN 46394-2197
Reviewer: Allen R. Davidson

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Allen R. Davidson at (800) 451-6027, press 0 and ask for extension 3-5693, or dial (317) 233-5693.

Sincerely,

Original signed by Paul Dubenetzky

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Paul Dubenetzky, Chief Permits Branch Office of Air Quality

Attachments ARD

cc: File - Lake County

U.S. EPA, Region V

Lake County Health Department IDEM - Northwest Regional Office

Air Compliance Section Inspector - Rick Massoels

Compliance Data Section - Karen Nowak

Administrative and Development - Janet Mobley Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT SIGNIFICANT SOURCE MODIFICATION OFFICE OF AIR QUALITY

BP Products North America, Inc. 2815 Indianapolis Boulevard Whiting, IN 46394

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

First Significant Source Modification 089-13846-00003			
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: June 27, 2001		
First Administrative Amendment 089-15525-00003	Pages Amended: 3, 5, 14 -17		
Original signed by Paul Dubenetzky Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: April 15, 2002		

First Administrative Amendment 089-15525-00003 Amended by: Allen R. Davidson

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SECTION A

SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the emission units contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a petroleum refinery.

Responsible Official: Ms. Maureen McGrail

Source Address: 2815 Indianapolis Boulevard, Whiting, IN 46394-2197
Mailing Address: 2815 Indianapolis Boulevard, Whiting, IN 46394-2197

Phone Number: 219-473-3234

SIC Code: 2911 County Location: Lake

County Status: Nonattainment for PM₁₀, Ozone and SO₂

Attainment for all other criteria pollutants

Source Status: Part 70 Permit Program

Major Source, under Emission Offset Rules; Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This source modification involves the following emission units and pollution control devices:

- (a) The Sulfur Recovery Unit (SRU), rated at 600 long tons per day, which includes:
 - (1) Three (3) three-stage Claus units, identified as the "A," "B" and "C" trains.
 - (2) One (1) Beavon-Stretford tail gas unit, a reduction system with a burner capacity of 24.3 MMBtu per hour, identified as "B/S TGU."
 - (3) One (1) tail gas unit, an oxidization system with a burner capacity of 40 MMBtu per hour, identified as "SBS TGU." Sulfur dioxide emissions are controlled by one (1) caustic soda scrubbing tower, which produces sodium bisulfite as a byproduct. Sodium bisulfite is removed from the exhaust stream by a cooling tower rated at 4200 gallons per minute, identified as the "SBS cooling tower", equipped with a high-efficiency mist eliminator.
 - (4) Gas quenching and cooling towers other than the SBS cooling tower.
 - (5) One (1) quench separator with mist eliminators.
 - (6) One (1) gas cooler and water condenser with sulfur dioxide stripper.
 - (7) Caustic soda storage tanks and sodium bisulfite storage tanks, and handling equipment.

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- (8) One (1) modular degassing unit, which removes gases that are emitted from the cooling of molten sulfur. Removed gases are vented to the SBS TGU. The modular degassing unit consists of:
 - (A) One (1) degassing column.
 - (B) Two (2) sulfur feed pumps, each rated at 72 gallons per minute.
 - (C) Two (2) air compressors, each rated at 193 standard cubic feet per minute.
 - (D) One (1) air compressor receiver.
 - (E) One (1) feed drum.
 - (F) One (1) sulfur cooler.
 - (G) Associated loading lines.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This source modification also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) One (1) heat exchanger rated at 24 million BTU per hour, utilizing waste heat from the SBS TGU for heat input.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a major source, as defined in 326 IAC 2-7-1(22).

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SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

B.3 Revocation of Permits [326 IAC 2-1.1-9(5)][326 IAC 2-7-10.5(i)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.4 Significant Source Modification [326 IAC 2-7-10.5(h)]

This document shall also become the approval to operate pursuant to 326 IAC 2-7-10.5(h) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emission units were constructed as proposed in the application. The emissions units covered in the Significant Source Modification approval may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emissions units differs from the construction proposed in the application, the source may not begin operation until the source modification has been revised pursuant to 326 IAC 2-7-11 or 326 IAC 2-7-12 and an Operation Permit Validation Letter is issued.
- (c) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (d) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.
- (e) In the event that the Part 70 application is being processed at the same time as this application, the following additional procedures shall be followed for obtaining the right to operate:
 - (1) If the Part 70 draft permit has not gone on public notice, then the change/addition covered by the Significant Source Modification will be included in the Part 70 draft.
 - (2) If the Part 70 permit has gone through final EPA proposal and would be issued ahead of the Significant Source Modification, the Significant Source Modification will go through a concurrent 45 day EPA review. Then the Significant Source Modification will be incorporated into the final Part 70 permit at the time of issuance.

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(3) If the Part 70 permit has gone through public notice, but has not gone through final EPA review and would be issued after the Significant Source Modification is issued, then the Modification would be added to the proposed Part 70 permit, and the Title V permit will issued after EPA review.

B.5 NSPS Reporting Requirement

Pursuant to the New Source Performance Standards (NSPS), Part 60.7(a), the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- (a) Commencement of construction date (no later than 30 days after such date);
- (b) Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- (c) Actual start-up date (within 15 days after such date); and
- (d) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Management 100 North Senate Avenue, P. O. Box 6015 Indianapolis, IN 46206-6015

The application and enforcement of these standards have been delegated to the IDEM, OAM. The requirements of 40 CFR Part 60 are also federally enforceable.

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SECTION C

GENERAL OPERATION CONDITIONS

C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) when operation begins, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions: and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

C.3 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

C.4 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that an emission unit vented to the control equipment is in operation.

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Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]

(a) Compliance testing on new emission units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this approval, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this approval, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAM of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAM if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

If required by Section D, all monitoring and record keeping requirements shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.10 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered:

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,

Compliance Section), or

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

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(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

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- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

C.11 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C Performance Testing, of this permit exceed the level specified in any condition of this
 permit, the Permittee shall take appropriate response actions. The Permittee shall
 submit a description of these response actions to IDEM, OAQ, within thirty (30) days of
 receipt of the test results. The Permittee shall take appropriate action to minimize
 excess emissions from the affected facility while the response actions are being
 implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.12 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.13 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

(a) The reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

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SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

The Sulfur Recovery Unit (SRU), rated at 600 long tons per day, which includes:

- (a) Three (3) three-stage Claus units, identified as the "A," "B" and "C" trains.
- (b) One (1) Beavon-Stretford tail gas unit, a reduction system with a burner capacity of 24.3 MMBtu per hour, identified as "B/S TGU."
- (c) One (1) tail gas unit, an oxidization system with a burner capacity of 40 MMBtu per hour, identified as "SBS TGU." Sulfur dioxide emissions are controlled by one (1) caustic soda scrubbing tower, which produces sodium bisulfite as a byproduct. Sodium bisulfite is removed from the exhaust stream by a cooling tower rated at 4200 gallons per minute, identified as the "SBS cooling tower", equipped with a high-efficiency mist eliminator.
- (d) Gas quenching and cooling towers other than the SBS cooling tower.
- (e) One (1) quench separator with mist eliminators.
- (f) One (1) gas cooler and water condenser with sulfur dioxide stripper.
- (g) Caustic soda storage tanks and sodium bisulfite storage tanks, and handling equipment.
- (h) One (1) modular degassing unit, which removes gases that are emitted during the cooling of molten sulfur. Removed gases are vented to the SBS TGU. The modular degassing unit consists of:
 - (1) One (1) degassing column.
 - (2) Two (2) sulfur feed pumps, each rated at 72 gallons per minute.
 - (3) Two (2) air compressors, each rated at 193 standard cubic feet per minute.
 - (4) One (1) air compressor receiver.
 - (5) One (1) feed drum.
 - (6) One (1) sulfur cooler.
 - (7) Associated loading lines.

Main Operating Scenario:

Approximately 80% of tail gases from the three trains are sent to the B/S TGU, with the remainder sent to the SBS TGU.

Alternate Operating Scenario #1:

One train and the B/S TGU are not operated. Tail gases from the other two trains are sent to the SBS TGU.

Alternate Operating Scenario #2:

The B/S TGU is not operated. Tail gases from the three trains are sent to the SBS TGU.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate Matter [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, particulate matter emissions from the SBS TGU and the SBS cooling tower shall not exceed 0.03 grains per dry standard cubic foot.

D.3.2 Lake County PM₁₀ Emission Limitations [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1, PM₁₀ emissions from the B/S TGU shall not exceed 0.11 pounds per ton of feed material and 0.103 pounds per hour (0.45 tons per year).

D.3.3 Emission Offset [326 IAC 2-3]

(a) Pursuant to Construction Permit 089-3323-00003, issued on December 14, 1994, emissions of total reduced sulfur calculated as sulfur dioxide from the B/S TGU shall be limited to 232.6 tons per 12-month period.

Furthermore, the following emission units shall remain inoperative unless new approval is obtained:

- (1) Propane Dewaxing Unit
- (2) #1, #2 and #3 Asphalt Oxidizers
- (3) The Butamer Unit
- (4) The F-7 Furnace to the Isomerization Unit
- (5) The #1 Power Station Boiler #1
- (b) Emissions of sulfur dioxide from the SBS TGU shall be limited to 39.4 tons per 12-month period.

This condition renders the requirements of Emission Offset as not applicable for sulfur dioxide.

D.3.4 Lake County Sulfur Dioxide Emission Limitations [326 IAC 7-4-1.1]

- (a) Pursuant to 326 IAC 7-4-1.1(c), sulfur dioxide emissions from the B/S TGU shall not exceed 18.83 pounds per ton of feed material. This requirement is superseded by more stringent sulfur dioxide conditions elsewhere in this permit.
- (b) Pursuant to 326 IAC 7-4-1.1(a), the SBS TGU shall only burn natural gas as fuel.

D.3.5 New Source Performance Standards [326 IAC 12] [40 CFR 60]

Pursuant to 326 IAC 12 (40 CFR 60, Subpart J):

- (a) Emissions of sulfur dioxide from the SBS TGU shall not exceed 250 parts per million (ppm) by volume, on a dry basis corrected to 0% excess air.
- (b) Emissions of reduced sulfur compounds from the B/S TGU, calculated as sulfur dioxide, shall not exceed 300 ppm by volume, on a dry basis corrected to 0% excess air.
- (c) Emissions of hydrogen sulfide from the B/S TGU, calculated as sulfur dioxide, shall not exceed 10 ppm by volume, on a dry basis corrected to 0% excess air.

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Compliance Determination Requirements

D.3.6 Legal Consent Decree

Pursuant to Consent Decree 2:96 CV 095 RL, the Permittee shall re-route all sulfur pit emissions such that they are treated, monitored, and included as part of the emissions of the SRU.

D.3.7 Determination for Particulate Matter [326 IAC 6-1-2]

The SBS cooling tower will be deemed in compliance with 326 IAC 6-1-2 provided that the total dissolved solids (TDS) in the cooling tower water do not exceed 3300 ppm.

D.3.8 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within 60 days after achieving the maximum production rate at which the SBS TGU will be operated, but not later than 180 days after initial startup, the Permittee shall conduct performance tests for sulfur dioxide emissions from the SBS TGU and furnish the Administrator a written report of the results of such performance tests.

D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this facility and its control devices.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.10 Continuous Emission Monitoring System (CEMS) Required [326 IAC 3-5] [326 IAC 12]

- (a) A continuous emission monitoring system shall be installed and shall be operated at all times when the SBS TGU is in operation. The CEMS shall continuously measure and record the concentration of sulfur dioxide emissions, on a dry basis corrected to 0% excess air. The CEMS shall also include an oxygen monitor for correcting the data for excess air, and a continuous flow meter for calculating the sulfur dioxide emission rate per month and per 12-month period.
- (b) A continuous emission monitoring system shall be installed and shall be operated at all times when the B/S TGU is in operation. The CEMS shall continuously measure and record the concentration of reduced sulfur emissions, on a dry basis corrected to 0% excess air. The CEMS shall also include an oxygen monitor for correcting the data for excess air.

D.3.11 Standard Operating Procedures [326 IAC 3-5-4]

Within 90 days after CEMS installation, the Permittee shall submit to OAQ standard operating procedures (SOP). If revisions are made to the SOP, updates shall be submitted biennially. At a minimum, the SOP shall describe procedures and operations as listed in 326 IAC 3-5-4(a).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.12 Record Keeping Requirements [326 IAC 3-5-6]

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

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D.3.13 Reporting of Excess Emissions [326 IAC 12] [40 CFR 60.7] [326 IAC 3-5-7]

- (a) For the purpose of reports under 40 CFR 60.7, periods of excess emissions shall be determined and reported as follows:
 - (1) All 12-hour periods during which the average concentration of SO₂, as measured by the continuous monitoring system on the SBS TGU, exceeds 250 ppm (dry basis, zero percent excess air).
 - (2) All 12-hour periods during which the average concentration of reduced sulfur as SO₂, as measured by the continuous monitoring system on the B/S TGU, exceeds 300 ppm (dry basis, zero percent excess air).
- (b) For the purpose of reports under 326 IAC 3-5-7, periods of excess emissions shall be determined and reported as follows:
 - (1) All 3-hour periods during which the average concentration of SO₂, as measured by the continuous monitoring system on the SBS TGU, exceeds 250 ppm (dry basis, zero percent excess air).
 - (2) All 3-hour periods during which the average concentration of reduced sulfur as SO₂, as measured by the continuous monitoring system on the B/S TGU, exceeds 300 ppm (dry basis, zero percent excess air).
- (c) The periods shall end at 03:00, 06:00, 09:00, 12:00, 15:00, 18:00, 21:00, and 24:00 hours.

D.3.14 Reporting Requirements [326 IAC 3-5-7]

A quarterly summary of the information to document compliance with Conditions D.3.3, D.3.4, D.3.6 and D.3.9 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: BP Whiting Refinery

Source Address: 2815 Indianapolis Blvd., Whiting, IN 46394-2197

Mailing Address: P.O. Box 710, Whiting, IN 46394-0710

Permit No.: 089-13846-00003

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.		
Please check what document is being certified:		
9 Test Result (specify)		
9 Report (specify)		
9 Notification (specify)		
9 Other (specify)		
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.		
Signature:		
Printed Name:		
Title/Position:		
Date:		

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY **COMPLIANCE DATA SECTION** P.O. Box 6015

100 North Senate Avenue Indianapolis, Indiana 46206-6015 Phone: 317-233-5674

Fax: 317-233-5967

PART 70 OPERATING PERMIT EMERGENCY/DEVIATION OCCURRENCE REPORT

Source Name: **BP** Whiting Refinery

2815 Indianapolis Blvd., Whiting, IN 46394-2197 Source Address:

P.O. Box 710, Whiting, IN 46394-0710 Mailing Address:

Permit No.: 089-13846-00003

This form consists of 2 pages

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Check either No. 1 or No.2 9 1. This is an emergency as defined in 326 IAC 2-7-1(12) The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(C) The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:
Describe the cause of the Emergency/Deviation:

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f any of the following are not applicable	, mark N/A	Page 2 of
Date/Time Emergency/Deviation starte	ed:	
Date/Time Emergency/Deviation was of	corrected:	
Was the facility being properly operate Describe:	d at the time of the emergency/deviation?	Y N
Type of Pollutants Emitted: TSP, PM-1	0, SO ₂ , VOC, NO _X , CO, Pb, other:	
Estimated amount of pollutant(s) emitte	ed during emergency/deviation:	
Describe the steps taken to mitigate th	e problem:	
Describe the corrective actions/respon	se steps taken:	
Describe the measures taken to minim	ize emissions:	
	/ continued operation of the facilities are neo nage to equipment, substantial loss of capita stantial economic value:	
Form Completed by:		
Title / Position:		
Date:		
Phone:		

BP Whiting Refinery Whiting, IN 46394-2197 Reviewer: Allen R. Davidson

Phone:

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

	Part 7	0 Quarterly Report	
Source Name: BP Whiting Refinery Source Address: 2815 Indianapolis Blvd., Whiting, IN 46394-2197 Mailing Address: P.O. Box 710, Whiting, IN 46394-0710 Part 70 Permit No.: 089-13846-00003			
Facility: Parameter: Limit:	Sodium Bisulfite (SBS) Tail Gas Unit Sulfur Dioxide 39.4 tons per 12-month period		
MONTHS	TO	YEAR:	
Month	Column 1	Column 2	Column 1 + Column 2
Month	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			
9	Deviation/s occurre	·	
S	ignature:		
D	ate:		

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT QUARTERLY COMPLIANCE MONITORING REPORT

Source Name: Source Address: Mailing Address: Permit No.:	ource Address: 2815 Indianapolis Blvd., Whiting, IN 46394-2197 ailing Address: P.O. Box 710, Whiting, IN 46394-0710			
	Months:	to	Year:	
stated in this per monitoring require be attached if ne	mit. This report seements and the concessary. This follows. If no deviation	shall be subn date(s) of ea rm can be su	s met all the compliance mornitted quarterly. Any deviatio ch deviation must be reported pplemented by attaching the please specify in the box many	n from the compliance d. Additional pages may Emergency/Deviation
9 NO DEVIATIO	NS OCCURRED	THIS REPO	ORTING PERIOD.	
9 THE FOLLOW	ING DEVIATION	IS OCCURR	ED THIS REPORTING PERI	OD.
	Monitoring Requestion D.1		Number of Deviations	Date of each Deviation
Ti Da	orm Completed B tle/Position: ate: none:	y:		

Attach a signed certification to complete this report.